

ABSTRACT

The present invention provides a process whereby a high viscosity hydrocarbonaceous material is fed to a gasifier for conversion to synthesis gas. The feedstock, steam, oxygen, and recycled gasification system water are all fed into the gasifier through a four stream feed injector. The feedstock in this design is sandwiched between two oxygen streams so as to provide better conversion for the exceptionally heavy feed. The fourth stream down the central bayonet of the feed injector provides the flow path for the recycled water.

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